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B5ABSTRACT OF THE DISCLOSURE

The system comprises two bi-directional transmission lines which extend parallel to and spaced from one another along the train;

a control unit operating as a main unit installed on the main engine is connected to the said transmission lines and to brake control systems or devices for the train;

a plurality of slave control units, each of which is installed on a respective carriage or wagon and is connected to both the said transmission lines, to solenoid valve units associated with pneumatic brake actuators, and to sensor devices associated with the carriage or wagon.

The main control unit and the slave control units are arranged to communicate with one another via the said transmission lines according to a predetermined serial protocol. The main control unit is arranged to transmit brake command signals to the slave control units, and to receive and acquire information or state signals coming from the slave control units via at least one of the set transmission lines.

(Figure 1)